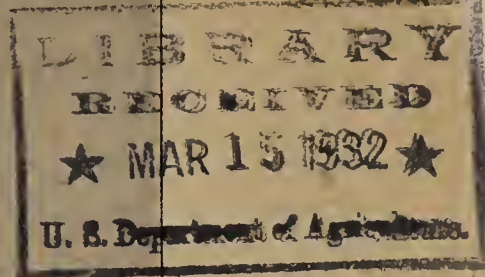


Historic, Archive Document

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**Cereus
candelaris,
Peru**

Due to the strict regulations governing the importation of plants, more and more cactus enthusiasts are growing their plants from seeds. By so doing they have found that it is possible to greatly increase their collection, both as to variety and numbers, at a minimum of expense. It is believed that there are seeds now listed in this catalog which have not as yet been grown in the U. S. This offers an opportunity to require many rare and little known varieties. The care and time of cultivation is amply repaid by the pleasure of possessing. To raise plants is not difficult, if the seeds have been carefully selected. The seeds offered are fresh and are true as to name. The following unsolicited letter may be of interest: My dear Mr. Tobusch: I thank you very much for the very beautiful seeds which have all germinated within a week, with the exception of *Aztekium ritteri* which was perhaps my fault. I cannot understand why everyone can't have beautiful cacti, when such fresh, healthy seed as yours is to be had so reasonably

Very sincerely yours
Arthur D. Houghton, M. D.

Herman Tobusch
632 So. Wisconsin Ave - Villa Park
ILLINOIS

Telephone 3932



Ariocarpus trigonus
seeds Nr. 5b



Astrophytum asterias
seeds Nr. 10



Astrophytum ornatum
seeds Nr. 12a

| Nr. | Rarities | 25 s. | 50 s. | 250 s. | 500 s. |
|-----|--|-------|-------|--------|--------|
| | | \$ | \$ | \$ | \$ |
| 1 | Ariocarpus fissuratus . . . | .15 | — .25 | 1.20 | 2.25 |
| 1a | " Kotschubeyanus . . . | .10 | — .20 | — .95 | 1.80 |
| 5a | " strobiliformis . . . | .15 | — .25 | 1.20 | 2.25 |
| 5b | " trigonus | .15 | — .30 | 1.45 | 2.70 |
| 6 | Anhalonium Williamsii . . . | .20 | — .40 | 1.90 | 3.60 |
| 6f | Aztekiem Ritteri (not for beginners) | .10 | — .20 | — .95 | 1.80 |
| 7 | Cephalocereus senilis . . . | .10 | — .20 | — .95 | 1.80 |
| 8 | " Palmeri . . . | .15 | — .30 | 1.40 | 2.40 |
| 8a | " Royenii, very rare | .50 | — .90 | — .— | — .— |
| 9 | Pilocereus erythrocephalus, red spined | .15 | — .30 | 1.40 | 2.40 |
| 10 | Astrophytum asterias, one of the most peculiar of cacti, grows very well . . . | .45 | — .80 | 3.60 | 6.40 |
| 10c | Astr. capricorne × asterias . . . | .60 | 1. — | 4.50 | 8. — |
| 10d | " capr senile × as- terias | .60 | 1. — | 4.50 | — .— |
| 10e | " capric. minor × asterias | .45 | — .80 | 3.60 | 6.40 |
| 10g | " myriost. coahuil. × asterias | .45 | — .80 | 3.60 | 6.40 |
| 10h | " asterias × myriost. coahuil. | .45 | — .80 | 3.60 | 6.40 |
| 10k | " myriost. pot. × or- natum | .60 | 1. — | 4.50 | 8. — |

These hybrids are the result of carefully crossing of specially selected plants, and it is interesting to observe the inherited characteristics as they grow.

| | | | | | |
|-----|---|-----|-------|------|------|
| 11 | Astrophytum asterias hybrid | .50 | — .90 | — .— | — .— |
| 11b | " capricorne | .45 | — .80 | 3.60 | 6.40 |
| 11c | " capricorne minor . . . | .50 | — .90 | 4.10 | 7.20 |
| 11d | " capricorne senile . . . | .45 | — .80 | 3.60 | 6.40 |
| 11e | " capricorne aureum . . . | .60 | 1. — | — .— | — .— |
| 11f | " capricorne crassispin- um | .60 | 1. — | 4.50 | 8. — |
| 12 | " myriostigma "Bishops cap" . . . | .35 | — .60 | 2.70 | 4.80 |
| 12a | " ornatum , the nicest of all | .50 | — .90 | 4.10 | 7.20 |
| 12c | " myriostigma, 4ribbed . . . | .45 | — .80 | 3.60 | 6.40 |
| 12d | " myriost. subsp. coa- huilensis | .80 | 1.50 | — .— | — .— |
| 12h | " mixed | .35 | — .65 | 2.90 | 5.20 |
| 13 | Obregonia Denegrii . . . | .25 | — .50 | 2.25 | 4. — |
| 13a | Haagea Schwartzii . . . | .25 | .50 | — .— | — .— |
| 13b | Leuchtenbergia principis . . . | .30 | — .60 | — .— | — .— |
| 13d | Melocactus caesius . . . | .25 | — .50 | — .— | — .— |
| 13f | " Townsendianus . . . | .20 | — .35 | 1.60 | 2.80 |
| 13g | " amoenus | .20 | — .40 | 1.80 | 3.20 |
| 13i | " intortus, rare | .30 | — .60 | 2.70 | 4.80 |
| 13l | " unguispinus, new . . . | .30 | — .60 | 2.70 | 4.80 |
| 13o | Neoraimondia macrosti- bas | .35 | — .60 | — .— | — .— |
| 13s | Microspermia rigidispina . . . | .40 | — .80 | — .— | — .— |
| 13p | Neoraimondia gigantea heavy spined | .45 | — .80 | — .— | — .— |
| 14a | Pelecyphora pectinata . . . | .25 | — .50 | — .— | — .— |
| 14g | Rhipsalis lumbricoides . . . | .45 | — .80 | — .— | — .— |

| Nr. | Cereus | 50 s. \$ | 250 s. \$ | 500 s. \$ | 5000 s. \$ |
|-----|--|-------------|--------------|--------------|---------------|
| 15d | aureispinus , yellow spines | — .25 | 1.20 | 2.— | 17.50 |
| 15f | acanthurus (Borzacactus) free flowering | — .35 | 1.60 | 2.80 | 24.50 |
| 15g | azureus , with black spines | — .20 | — .90 | 1.60 | 14.— |
| 15h | bavosus , quick growing | — .30 | 1.40 | 2.40 | 21.— |
| 15i | Baumannii , like Straussii , close yellow spined | — .25 | 1.20 | 2.— | 17.50 |
| 15k | brachypetalus (Corryoc.) red spined | — .25 | 1.20 | 2.— | 17.50 |
| 15m | brevistylus (Corryoc.) | — .35 | 1.60 | 2.80 | 24.50 |
| 15p | boliviensis | — .30 | 1.40 | 2.40 | 21.— |
| 16a | candicans , large white flowers | — .25 | 1.20 | 2.— | 17.50 |
| 16b | Bridgesii , blue, easy growing | — .20 | — .90 | 1.60 | 14.— |
| 16d | candelaris , (Browningia) forms slender candelabrum, flowers orangered | — .30 | 1.40 | 2.40 | 21.— |
| 16e | candelabrum , from Mexico | — .25 | 1.20 | 2.— | 17.50 |
| 16f | cartwrightianus , large seeds, quick growing | — .50 | 2.25 | 4.— | — .— |
| 17 | chiloensis | — .50 | 2.25 | 4.— | 35.— |
| 17f | chosiquensis (Binghamia) This wonderful plant can be likened to a gold-yellow Straussii | — .65 | 2.90 | 5.20 | 45.— |
| 18 | coerulescens , blue | — .30 | 1.40 | 2.40 | 21.— |
| 19 | Chiotilla | — .25 | 1.20 | 2.— | 17.50 |
| 19a | columna Trajani | — .50 | 2.25 | 4.— | 35.— |
| 20 | Coryne , striking appearance | — .20 | — .90 | 1.60 | 14.— |
| 20b | cuzcoensis , Trichocereus the rarest from Interiar of Peru | — .30 | 1.40 | 2.40 | — .— |
| 21 | Dumortieri | — .30 | 1.40 | 2.40 | 21.— |
| 21d | del Moralii , easy growing | — .25 | 1.20 | 2.— | 17.50 |
| 21e | decumbens (Borzacactus) | — .60 | — .— | — .— | — .— |
| 21f | deficiens (Venezuela) | — .50 | 2.25 | 4.— | — .— |
| 22 | eburneus | — .40 | 1.80 | 3.20 | 28.— |
| 24 | Emoryi (Bergerocactus) | — .70 | — .— | — .— | — .— |
| 25a | fascicularis , very fine | — .30 | — .— | — .— | — .— |
| 26 | Forbesii , good for be- ginner | — .25 | 1.20 | 2.— | 17.50 |
| 27 | Funkianus (Chile) | — .45 | 2.— | 3.60 | 31.50 |
| 29 | geometrizans , seedlings wonderful blue | — .15 | — .70 | 1.20 | 10.50 |
| 36 | jungo , interesting | — .50 | 2.25 | 4.— | 35.— |
| 42 | giganteus (Carnegie) | — .25 | 1.20 | 2.— | — .— |
| 43 | grandiflorus , „Queen of the night“ keep seedlings shaded, warm and moist | — .40 | 1.80 | 3.20 | 28.— |
| 44 | griseus , beautifully frosted body | — .50 | 2.25 | 4.— | — .— |
| 44b | Hassleri (Paraguay) easy to grow | — .50 | 2.25 | 4.— | — .— |
| 45 | Hollianus , good for the novice | — .40 | 1.80 | 3.20 | 28.— |
| 49 | Jamacaru , easely grown | — .30 | 1.40 | 2.40 | 21.— |
| 51b | Lauterbachii | — .40 | 1.80 | 3.20 | 28.— |
| 51c | laetus | — .20 | — .90 | 1.60 | 14.— |
| 51f | litoralis (Chile) rare | — .40 | 1.80 | 3.20 | — .— |
| 54 | melanostele , (Binghamia) fine | — .60 | 2.70 | 4.80 | — .— |
| 55 | microspermus , golden brown bristles | — .60 | 2.70 | 4.80 | — .— |



Cereus candicans
seeds Nr. 16 a

I. Mexico-Kollection:

20 different sorts, one packet each, about
800 seeds
price \$ 1.—



Cereus Forbesii
seeds Nr. 26



Cereus grandiflorus
seeds Nr. 43

II. Argentina-Kollektion:

12 different sorts, one packet each, about
400 seeds price \$ 1.—



Cereus Strausii
seeds Nr. 69

| Nr. | | 50 s. \$ | 250 s. \$ | 500 s. \$ | 5000 s. \$ |
|-----|--|-------------|--------------|--------------|---------------|
| 57b | nycticalus „Prinzess of the night“ | —40 | 1.80 | 3.20 | 28.— |
| 57d | Ocamponis | —50 | 2.25 | 4.— | —.— |
| 58 | Pasacana , the bolivian „Old man“ | —15 | —70 | 1.20 | 10.50 |
| 59 | paraguayensis, quick growing | —25 | 1.20 | 2.— | 17.50 |
| 60 | pectenaboriginum, largest seeds, grows very quick | —40 | 1.80 | 3.20 | —.— |
| 61 | peruvianus | —20 | —90 | 1.60 | 14.— |
| 61a | Pitahaya | —30 | 1.40 | 2.40 | 21.— |
| 61c | Pitahaya montruosus | —60 | —.— | —.— | —.— |
| 61f | phatnospermus (Parag.) rare | —40 | 1.80 | 3.20 | 28.— |
| 62c | platinospinus, rare | —90 | —.— | —.— | —.— |
| 63 | pruinosis, frosted body | —30 | 1.40 | 2.40 | 21.— |
| 64a | Schottii, nice, good growing | —40 | 1.80 | 3.20 | 28.— |
| 64b | Seidelii, fine blue | —60 | 2.70 | 4.80 | —.— |
| 65 | Spachianus , good grow- ing, best for grafting | —30 | 1.40 | 2.40 | 21.— |
| 65b | spinibarbis, very long spines | —50 | 2.25 | 4.— | 35.— |
| 67 | squarrosus (Erdisia) free flowering | —50 | 2.25 | 4.— | 35.— |
| 68 | Spegazzinii, a slender, branched plant, with a beautiful pattern on the epidermis | —40 | 1.80 | 3.20 | 28.— |
| 69 | Strausii (Pilocereus) white columnar, much desired | —20 | —90 | 1.60 | 14.— |
| 70 | strigosus, similar to spa- chianus | —40 | 1.80 | 3.20 | 28.— |
| 75 | Terscheckii | —20 | —90 | 1.60 | 14.— |
| 78 | thelegonoides | —40 | 1.80 | 3.20 | 28.— |
| 82c | usitatus, rare | —50 | —.— | —.— | —.— |
| 84 | Weingartii (Monvillea), white spined | —70 | —.— | —.— | —.— |
| 84b | Weberbaueri (Meyenia) fine | —30 | —.— | —.— | —.— |
| 85 | Many kinds mixed | —10 | —40 | —70 | 6.— |

Echinocactus

| | | | | | |
|------|--|-----|------|------|-------|
| 92 | bicolor, many colored spines | —30 | 1.40 | 2.40 | 21.— |
| 93 | bicolor bolansis, withe | —40 | —.— | —.— | —.— |
| 94 | bicolor tricolor | —30 | —.— | —.— | —.— |
| 96 | Bodenbenderianus | —50 | 2.25 | 4.— | 35.— |
| 99 | centeterius | —40 | 1.80 | 3.20 | —.— |
| 99a | ceratistes (Chile) | —45 | 2.— | 3.60 | 31.50 |
| 102 | conothelos , wonderful with long white spines, blossoms when 2 inch. in diameter | —50 | —.— | —.— | —.— |
| 103 | coptonogonus | —40 | 1.80 | 3.20 | 28.— |
| 104 | corniger, broad flatspines | —20 | —90 | 1.60 | 14.— |
| 105b | chrysacanthion , rare, golden yellow | —60 | 2.70 | 4.80 | 42.— |
| 108 | crispatus, many ribbed | —25 | 1.20 | 2.— | 17.50 |
| 110 | cupreatus, rare chilean kind | —80 | 3.60 | 6.40 | —.— |
| 115 | de Laetii, free flowering | —30 | 1.40 | 2.40 | 21.— |
| 117c | ebenacanthus | —50 | —.— | —.— | —.— |
| 118 | electracanthus | —20 | —90 | 1.60 | 14.— |

| Nr. | Echinocactus | 50 s. \$ | 250 s. \$ | 500 s. \$ | 1000 s. \$ |
|------|---|-------------|--------------|--------------|---------------|
| 119e | Emoryi | .30 | — | — | — |
| 120a | Fiedlerianus, very rare | .80 | — | — | — |
| 123 | gibbosus | .50 | — | — | — |
| 127c | gladiatus | .40 | 1.80 | 3.20 | — |
| 129 | Grossei (Paraguay) . . . | .30 | 1.40 | 2.40 | — |
| 130 | Grusonii , golden yellow spined, seedlings reddish color at first | .30 | 1.40 | 2.40 | 21.— |
| 131 | Grässneri (Brasil) . . . | .80 | — | — | — |
| 133 | Haselbergii (Brasil) . . . | .80 | — | — | — |
| 134 | heterochromus | .40 | 1.80 | 3.20 | — |
| 135 | hexaedrophorus, many colored spines | .30 | 1.40 | 2.40 | 21.— |
| 137 | Hossei, rare | .50 | 2.25 | 4.— | 35.— |
| 139 | islayanus (Peru), rare . . | .80 | — | — | — |
| 141 | Johnsonii (Calif.) . . . | .30 | — | — | — |
| 142 | ingens | .15 | .70 | 1.20 | 10.50 |
| 144a | Knebeli | .30 | 1.40 | 2.40 | 21.— |
| 144b | Kurtzianus , very nice | .50 | 2.25 | 4.— | 35.— |
| 144d | Knuthianus, named of count Knuth | .30 | 1.40 | 2.40 | — |
| 145 | Korethroides , a scarlet fl. novelty, early bloo- ming, possibly hardy in southern states | .25 | 3.20 | 6.— | — |
| 146 | Le Contei, not recomen- ded for a novice | .50 | — | — | — |
| 148 | Lenninghausii | .90 | — | — | — |
| 148a | leptanthus , blooms in 2. year | .60 | 2.70 | 4.80 | 42.— |
| 150 | longihamatus | .15 | .70 | 1.20 | 10.50 |
| 150c | loricatus , fine | .40 | 1.80 | 3.20 | 28.— |
| 151 | Maassii , green body, yellow spines flowers copper red | .50 | 2.25 | 4.— | 35.— |
| 151c | megarhizus | .30 | 1.40 | 2.40 | — |
| 153b | microspermus | .30 | 1.40 | 2.40 | 21.— |
| 153e | microspermus sanguini- flora | .45 | 2.— | 3.60 | 31.50 |
| 153f | minusculus, blossoms the second year | .25 | 1.20 | 2.— | 17.50 |
| 154 | multicostatus | .30 | 1.40 | 2.40 | 21.— |
| 154b | multiflorus , a most beautiful echinocactus, rose colored fl. | .40 | 1.80 | 3.20 | 28.— |
| 156 | Mathssonii | .30 | 1.40 | 2.40 | 21.— |
| 158 | multiflorus v. hybo- pleura , profusely fl easi- ly grown from seeds . . . | .35 | 1.60 | 2.80 | 24.50 |
| 159 | nidulans | .50 | 2.25 | 4.— | — |
| 159b | nivosus (Microspermia) snow white spines, large flowers, good growing . . | .60 | 2.70 | 4.80 | 42.— |
| 160 | nigricans , black spines, flowers yellow with red . . | .50 | 2.25 | 4.— | 35.— |
| 160b | occultus, rare, from Chile | .60 | 2.70 | 4.80 | — |
| 161 | Ottonis var. paraguayensis | .50 | — | — | — |
| 163 | pampeanus | .45 | 2.— | 3.60 | 31.50 |
| 165 | peruvianus , dark green wonderfully spined, rose flowers | .25 | 1.20 | 2.— | 17.50 |
| 167 | pilosus. red spined . . . | .30 | 1.40 | 2.40 | 21.— |
| 172 | pulcherrimus (Frailea) . . | .35 | 1.60 | 2.80 | — |
| 173 | Quehlianus | .40 | 1.80 | 3.20 | 28.— |
| 176 | robustus | .30 | 1.40 | 2.40 | 21.— |



Echinocactus bicolor
seeds Nr. 92



Echinocactus conothelos
seeds Nr. 102



Echinocactus corniger
seeds Nr. 104



Echinocactus leptanthus
seeds Nr. 148 a

III. Venezuela/Colombia- Kollektion:

6 different rare sorts one packet each
price \$ 1.—



Echinocactus loricatus
seeds Nr. 150 c

| Nr. | Echinocactus | 50 s. \$ | 250 s. \$ | 500 s. \$ | 5000s. \$ |
|------|--|-------------|--------------|--------------|--------------|
| 176a | Saglionis , velvet green body, splendid rose colored flowers | —30 | 1.40 | 2.40 | 21.— |
| 176b | Sandillon, valuable kind from Chile | —40 | 1.80 | 3.20 | 28.— |
| 176d | Saussieri | —35 | 1.60 | 2.80 | 24.50 |
| 176e | salmoneus (Rebutia)new | 1.— | 3.80 | 7.— | 49.— |
| 178 | Schickendantzii , free flowering, nice two colored spines | —20 | —90 | 1.60 | 14.— |
| 178a | Schilinzkyanus, rare | —60 | — | — | — |
| 178b | Schumannianus, golden brown spines | —50 | — | — | — |
| 179 | scopa ruberrimus, wonderful | —40 | 1.80 | 3.20 | 28.— |
| 179a | Sellowii | —60 | — | — | — |
| 179b | senilis, Rariety with white bristles, another „Old man“ | —75 | 3.40 | 6.— | 52.50 |
| 180 | setispinus, free flowering | —40 | 1.80 | 3.20 | 28.— |
| 180b | species nova (Gymnoc.) dark red flowering, very fine | —50 | 2.25 | 4.— | — |
| 181a | Smithii, white | —60 | — | — | — |
| 181c | Suiterianus, easely flowering | —50 | 2.25 | 4.— | — |
| 181e | stellatus | —60 | 2.70 | 4.80 | — |
| 181f | Stuckertii, red fl. rare, very fine | —50 | 2.25 | 4.— | — |
| 181g | Stümeri , new, closely brown red spined, seeds available the first time | —40 | 1.80 | 3.20 | 28.— |
| 182a | tabularis | —50 | — | — | — |
| 185 | tulensis, nice rose fl. | —50 | 2.25 | 4.— | — |
| 186b | Trollietii | —30 | 1.40 | 2.40 | 21.— |
| 188c | umadeave (Friesia) hardy | —60 | 2.70 | 4.80 | — |
| 190 | Urselianus | —50 | — | — | — |
| 192 | viridescens, fresh green, yellow spines | —30 | 1.40 | 2.40 | 21.— |
| 195 | Wislizenii | —20 | —90 | 1.60 | — |
| 196 | Wipplei | —60 | — | — | — |
| 198 | many kinds mixed | —10 | —40 | —75 | 6.— |

| | Echinocereus | | | | |
|-----|---|-----|------|------|------|
| 222 | ctenoides, rare | —60 | — | — | — |
| 223 | conoideus | —40 | — | — | — |
| 225 | de Laetii | —30 | 1.40 | 2.40 | — |
| 226 | Engelmannii | —50 | — | — | — |
| 228 | Fendleri | —40 | — | — | — |
| 229 | Fitschii , wonderful flowering | —50 | 2.25 | 4.— | — |
| 230 | mojavensis, rare | —50 | — | — | — |
| 231 | paucispinus | —50 | — | — | — |
| 243 | phoeniceus, hardy | —40 | 1.80 | 3.20 | — |
| 245 | procumbens | —30 | 1.40 | 2.40 | 21.— |
| 246 | Reichenbachii | —45 | — | — | — |
| 251 | tuberosus, wonderful large flowers, rare (Wilcoxia) | —60 | 2.70 | 4.80 | — |
| 253 | viridiflorus, hardy | —50 | — | — | — |
| 254 | many kinds mixed | —10 | —45 | —90 | 8.— |

| Nr. | Echinopsis | 50 s. | 250 s. | 500 s. | 5000 s. |
|------|--|-------|--------|--------|---------|
| | | \$ | \$ | \$ | \$ |
| 263 | aurea | — .40 | — .— | — .— | — .— |
| 268 | boliviensis (Lobivia), long spines | — .30 | 1.40 | 2.40 | 21.— |
| 272 | campylacantha | — .20 | — .90 | 1.60 | 14.— |
| 273 | campylacantha, var. cordobensis | — .30 | 1.40 | 2.40 | — .— |
| 278 | Eyriesii, white blossoms | — .30 | 1.40 | 2.40 | — .— |
| 279c | formosa, straight thin spines | — .30 | 1.40 | 2.40 | 21.— |
| 279d | formosissima | — .30 | 1.40 | 2.40 | 21.— |
| 280b | gemmata | — .40 | — .— | — .— | — .— |
| 281 | grandis, yellow flowering new | — .40 | 1.80 | 3.20 | 28.— |
| 282 | Hossei (Lobivia) new | — .40 | 1.80 | 3.20 | — .— |
| 284d | leucantha , heavyspines | — .30 | 1.40 | 2.40 | 21.— |
| 291 | oxygona | — .30 | 1.40 | 2.40 | 21.— |
| 293a | potosina (Lobivia) a ri- cently introduced alpine plant | — .40 | 1.80 | 3.20 | 28.— |
| 294 | rhodacantha, red spined | — .20 | — .90 | 1.60 | 14.— |
| 295 | rhodotricha var. argentin. | — .40 | 1.80 | 3.20 | 28.— |
| 296 | saltensis (Lobivia) large fl seeds available the first time | — .50 | 2.25 | 4.— | 35.— |
| 299 | Schickendantzii, good for grafting | — .50 | 2.25 | 4.— | — .— |
| 300 | spiniflora | — .60 | — .— | — .— | — .— |
| 304 | tubiflora | — .30 | 1.40 | 2.40 | 21.— |
| 309 | valida | — .50 | 2.25 | 4.— | 35.— |
| 314 | Zuccariniana | — .30 | 1.40 | 2.40 | — .— |
| 317 | species nova (Lobivia) fl. dark red, from Bolivia | — .60 | 2.70 | 4.80 | — .— |
| 320 | many kinds mixed . . . | — .10 | — .40 | — .75 | 6.— |

| Mamillaria | | 50 s. | 250 s. | 500 s. | 5000 s. |
|-------------------|---|-------|--------|--------|---------|
| | | \$ | \$ | \$ | \$ |
| 353 | angularis v. compressa . | — .30 | 1.40 | 2.40 | 21.— |
| 355 | aureiceps | — .50 | — .— | — .— | — .— |
| 360 | Boccasana , with white hairs, free flowering . . | — .25 | 1.20 | 2.— | 17.50 |
| 365 | candida, white, rose fl. | — .30 | 1.40 | 2.40 | 21.— |
| 367 | camptotricha | — .50 | — .— | — .— | — .— |
| 369a | carnea | — .40 | 1.80 | 3.20 | 28.— |
| 371 | Celsiana | — .50 | — .— | — .— | — .— |
| 372 | centricirrha | — .30 | — .— | — .— | — .— |
| 377 | chlorantha | — .30 | — .— | — .— | — .— |
| 378 | chionocephala | — .25 | 1.20 | 2.— | 17.50 |
| 379 | Collina | — .40 | 1.80 | 3.20 | — .— |
| 385 | crassispina | — .40 | — .— | — .— | — .— |
| 388b | dealbata | — .50 | — .— | — .— | — .— |
| 389 | decipiens, good growing | — .40 | 1.80 | 3.20 | 28.— |
| 391 | dioica | — .40 | — .— | — .— | — .— |
| 393 | Donatii | — .25 | 1.20 | 2.— | — .— |
| 395 | echinoidea, very nice . | — .20 | — .90 | 1.60 | 14.— |
| 396 | elegans, white | — .30 | 1.40 | 2.40 | — .— |
| 397 | elephantidens, largest flowers of all | — .50 | 2.25 | 4.— | — .— |
| 398a | elongata v. anguinea . . | — .40 | — .— | — .— | — .— |
| 398b | elongata v. stella aurata , „goldstar“ . . | — .30 | 1.40 | 2.40 | 21.— |
| 403 | fertilis | — .50 | — .— | — .— | — .— |
| 404 | fuscata | — .40 | — .— | — .— | — .— |
| 413 | Gültzowiana, bright red flowers | — .90 | — .— | — .— | — .— |



Echinocereus Fitschii
seeds Nr. 229

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Echinopsis campylacantha
seeds Nr. 272



Mamillaria angularis
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Mamillaria candida
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Mamillaria elegans
seeds Nr. 396

| Nr. | Mamillaria | 50 s. \$ | 250 s. \$ | 500 s. \$ | 5000 s. \$ |
|------|---|-------------|--------------|--------------|---------------|
| 416 | grandiflora , white, flowers purple | —20 | —90 | 1.60 | 14.— |
| 419 | Haageana | —40 | — | — | — |
| 419a | Heeseana | —30 | — | — | — |
| 421 | Heyderi applanata , good growing | —20 | —90 | 1.60 | 14.— |
| 422 | hidalgensis | —40 | — | — | — |
| 423 | hemisphaerica | —30 | — | — | — |
| 425 | Karwinskyana | —50 | — | — | — |
| 427 | Kunthii, white | —40 | — | — | — |
| 429b | lanata, white ball | —30 | 1.40 | 2.40 | — |
| 431 | leona, columnar | —40 | — | — | — |
| 432 | lenta, rare | —60 | — | — | — |
| 434 | longimamma | —50 | — | — | — |
| 436 | Lesanieri, free flowering | —50 | — | — | — |
| 438 | longiflora | —50 | 1.80 | 3.20 | 28.— |
| 440 | macrothele , seedlings wonderful | —40 | 1.80 | 3.20 | 28.— |
| 441 | macromeris | —60 | — | — | — |
| 442 | Mainae, green body with yellow spines, fl. white and purple striped | —75 | — | — | — |
| 452 | montana | —40 | — | — | — |
| 459 | Mölleriana | —50 | — | — | — |
| 459d | nigra, black spines | —30 | — | — | — |
| 461 | mystax | —40 | 1.80 | 3.20 | — |
| 462 | Mühlbaueriana | —50 | — | — | — |
| 464 | Ottonis | —30 | — | — | — |
| 466 | Palmeri | —20 | — | — | — |
| 472 | perbella, short spines, white | —50 | — | — | — |
| 472b | Pfeifferi, yellow spines | —20 | — | — | — |
| 473 | phellosperma, very rare | —75 | — | — | — |
| 474 | plumosa | —60 | — | — | — |
| 475 | Pringlei, close yellow spined | —40 | 1.80 | 3.20 | — |
| 479 | Potsii | —30 | — | — | — |
| 479c | Potosina | —40 | 1.80 | 3.20 | 28.— |
| 481 | pseudoperbella | —30 | 1.40 | 2.40 | — |
| 487 | radians | —30 | 1.40 | 2.40 | 21.— |
| 491 | recurvata (Coryphantha), rare | —50 | — | — | — |
| 494 | rhodantha | —20 | —90 | 1.60 | — |
| 497b | rosea-alba | —25 | 1.20 | 2.— | — |
| 498b | Schiedeana, rare | —50 | — | — | — |
| 506 | simplex , from Venezuela | —30 | 1.40 | 2.40 | 21.— |
| 506b | Sheldonii, rare | —50 | — | — | — |
| 507 | sphaerica, valuable plant | —40 | 1.80 | 3.20 | — |
| 508a | spinosissima v. sanguinea, blood-red spines | —50 | 2.25 | 4.— | 35.— |
| 511 | sulcolanata, large fl. | —30 | — | — | — |
| 515 | tuberculosa | —20 | — | — | — |
| 526 | uncinata | —15 | —70 | 1.20 | 10.50 |
| 528 | valida, heavy spined | —40 | 1.80 | 3.20 | 28.— |
| 529b | Vaupeliana | —25 | 1.20 | 2.— | 17.50 |
| 532 | Viereckii | —40 | 1.80 | 3.20 | — |
| 534 | viperina | —50 | — | — | — |
| 537 | Waltheri | —50 | — | — | — |
| 539 | zephyranthoides, fine | —40 | 1.80 | 3.20 | 28.— |
| 540 | Zeyeriana | —20 | —90 | 1.60 | 14.— |
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| | | | | | |
|-----|---|-----|-----|------|---|
| 550 | Vorwerkii, striking novelty, purple fl. seeds available the first time | —45 | 2.— | 3.60 | — |
|-----|---|-----|-----|------|---|

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|------|---|-------------|--------------|--------------|---------------|
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| 564 | aoracantha | — .40 | —.— | —.— | —.— |
| 566 | Amyclea, long white spines | — .40 | 1.80 | 3.20 | —.— |
| 567c | bala | — .45 | —.— | —.— | —.— |
| 571 | camanchica, hardy | — .60 | —.— | —.— | —.— |
| 578 | ficus indica | — .20 | — .90 | 1.60 | 14.— |
| 582 | distans , blue new | — .45 | 2.— | 3.60 | 31.50 |
| 585 | floccosa, with white hairs | — .60 | —.— | —.— | —.— |
| 588 | frutescens | — .30 | 1.40 | 2.40 | —.— |
| 589 | hypsochila, very rare, n w | — .50 | 2.25 | 4.— | —.— |
| 590 | Hildmannii | — .30 | 1.40 | 2.40 | 21.— |
| 590d | hyptiacantha | — .30 | —.— | —.— | —.— |
| 590e | ignescens | — .40 | 1.80 | 3.20 | 28.— |
| 592b | Kleiniae | — .30 | 1.40 | 2.40 | —.— |
| 593c | Jocoquilla | — .30 | 1.40 | 2.40 | 21.— |
| 599 | longispina | — .50 | —.— | —.— | —.— |
| 603 | nigrispina, fine | — .40 | 1.80 | 3.20 | —.— |
| 605 | microdasys | — .30 | 1.40 | 2.40 | 21.— |
| 606 | „ var. rufida | — .40 | 1.80 | 3.20 | —.— |
| 609 | Pentlandii | — .50 | 2.25 | 4.— | —.— |
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| 613 | Quimilo | — .30 | —.— | —.— | —.— |
| 614 | Soehrensii , new | — .30 | 1.40 | 2.40 | —.— |
| 615 | Rafinesquiana, hardy | — .20 | — .90 | 1.60 | 14.— |
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| 619a | subterranea, peculiar plant | — .50 | 2.25 | 4.— | —.— |
| 619c | stenarthra | — .50 | —.— | —.— | —.— |
| 622 | tomentosa | — .35 | —.— | —.— | —.— |
| 624a | tunicata | — .30 | 1.40 | 2.40 | —.— |
| 624c | tuna azul | — .40 | —.— | —.— | —.— |
| 626g | Weberi, rare | — .50 | —.— | —.— | —.— |
| 626k | Weberi var. red fl. long bristles | — .40 | 1.80 | 3.20 | 28.— |
| 626i | vulgaris, hardy | — .20 | — .90 | 1.60 | 14.— |
| 627 | many kinds mixed | — .10 | — .30 | — .50 | 4.— |

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| | | | | | |
|-----|--|-------|------|------|------|
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| 660 | large flowering hybrids mixed | — .30 | 1.40 | 2.40 | 20.— |

Pilocereus

| | | | | | |
|------|--|-------|------|------|------|
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| 668d | Dautwitzii var. Haagei, pure white | —80 | — | — | — |
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| 672 | (Espostoa) giganteus, (Cereus sericatus) a better growing „Dautwitzii“, fine | —75 | 3.40 | 6.— | — |
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Cacti of all kinds

| | | | | | |
|-----|-----------------|-----|-----|-----|-----|
| 684 | mixed | —10 | —30 | —50 | 4.— |
|-----|-----------------|-----|-----|-----|-----|

Seeds of other succulent plants

| Nr. | | 50 s. \$ | 500 s. \$ | 5000 s. \$ |
|------|--|-------------|--------------|---------------|
| 718 | Agave chiapensis | —25 | — | — |
| 734 | „ Ghiesbreghtii | —30 | 2.40 | — |
| 740 | „ horrida | —20 | — | — |
| 741b | „ ingens | —20 | 1.60 | — |
| 749 | „ macracantha | —30 | — | — |
| 752 | „ maculosa | —40 | — | — |
| 758 | „ polyacantha | —20 | 1.60 | — |
| 759 | „ parviflora | —50 | — | — |
| 773 | „ Verschaffeltii | —30 | 2.40 | — |
| 775 | „ Victoriae Reginae | —40 | — | — |
| 781 | „ many kinds mixed | —20 | 1.60 | — |
| 797 | Aloe caesia | —30 | — | — |
| 802 | „ davyana | —20 | 1.60 | — |
| 812 | „ ferox | —30 | — | — |
| 820 | „ Hanburyana | —20 | 1.60 | 14.— |
| 826 | „ microstigma | —40 | 3.20 | — |
| 846 | „ Saponaria | —20 | — | — |
| 854 | „ striata | —40 | — | — |
| 856 | „ umbellata | —30 | — | — |
| 874 | „ many kinds mixed | —10 | —80 | 7.— |
| 876 | Anacampseros albissima | —50 | 4.— | — |
| 877 | „ alta v. Poelln. sp. nova | —50 | — | — |
| 882c | „ Meyeri v. Poelln. sp. nova | —50 | — | — |
| 882f | „ papyracea | —40 | 3.20 | — |
| 882g | „ parviflora v. Poelln. sp. nova | —60 | — | — |
| 883 | Bonaparteia hystrix, interesting | —20 | — | — |

Seeds of other succulent plants

| Nr. | | 50 s. \$ | 500 s. \$ | 5000 s. \$ |
|------|---|-------------|--------------|---------------|
| 884 | Caralluma pseudo-New-brownii, rare | — .50 | — .— | — .— |
| 888c | Crassula clavifolia | — .50 | — .— | — .— |
| 889 | " columnaris , very nice | — .50 | — .— | — .— |
| 890 | " deceptrix , one of the finest | — .60 | — .— | — .— |
| 891 | " decipiens | — .45 | — .— | — .— |
| 911 | Echeveria de Smetiana, frosted leaves | — .20 | 1.60 | 14. — |
| 939 | " setosa | — .30 | 2.40 | — .— |
| 941 | Euphorbia aphylla | | | |
| | 25 seeds \$ 0.90 | 1.60 | — .— | — .— |
| 942 | " atropurpurea | | | |
| | 25 seeds \$ 1.20 | — .— | — .— | — .— |
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| | 25 seeds \$ 0.70 | 1.20 | — .— | — .— |
| 945 | " bupleurifolia | | | |
| | 10 seeds \$ 1.20 | 5. — | — .— | — .— |
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| 1012 | " obtusifolia | — .40 | 3.20 | — .— |
| 1042 | " mixed | — .25 | 2. — | 17.50 |
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| 1080 | Kalanchoe thyrsiflora | — .10 | — .80 | 7. — |
| 1196 | Rochea falcata , large, red umbellate flowers | — .40 | 3.20 | 28. — |
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| 1409 | " variabilis | — .45 | 3.60 | — .— |
| 1410 | " variegata | — .40 | — .— | — .— |
| 1412 | " verrucosa | — .50 | 4. — | — .— |
| 1415 | " mixed | — .35 | 2.80 | — .— |
| 1450 | Yucca Draconis | — .15 | — .— | — .— |
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| 1546 " testiculare | — .25 | — .45 | 3 60 |
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| 1597b | " inaequalis | — .25 | — .45 | 3.60 |
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| 1602 | " peculiaris | — .40 | — .75 | 6. — |
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| 1616 | " breve | — .70 | 1.20 | — .— |
| 1618 | " calculus | — .60 | 1. — | — .— |
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| 1630 | " kubusbergensis Law. sp. nova | — .80 | 1.40 | — .— |
| 1640 | " Maughanii | — .25 | — .45 | 3.60 |
| 1645 | " Meyerae | — .40 | — .75 | — .— |
| 1657 | " Nevellei | — .80 | 1.40 | — .— |
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| 1719 | " hispidum | — .50 | — .90 | — .— |
| 1720 | " Lüderitzii | — .40 | — .75 | — .— |
| 1726 | " Schoenlandianum | — .40 | — .75 | 6. — |
| 1728 | " speciosum | — .50 | — .90 | — .— |
| 1729 | " subcompressum | — .25 | — .45 | 3.60 |
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| 1752 | " lupina | — .50 | — .90 | — .— |
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| 1775 | " <i>pubescens</i> | — .50 | — .90 | —.— |
| 1776 | <i>Glottiphyllum bigibberatum</i> | —.— | — .40 | —.— |
| 1778 | " <i>compressum</i> | —.— | — .30 | —.— |
| 1780 | " Haagei , opalescent body, very large fra- grant flowers | —.— | — 40 | 3.20 |
| 1783 | " <i>linquiforme</i> | —.— | — .20 | —.— |
| 1784 | " <i>lucidum</i> | —.— | — .30 | —.— |
| 1787 | " <i>longum</i> | —.— | — .40 | —.— |
| 1789 | " <i>parviflorum</i> | —.— | — .30 | —.— |
| 1790 | " <i>propinguae</i> | —.— | — .40 | —.— |
| 1797 | <i>Herreroa gracilis</i> <i>L. Bol.</i> sp. nova | — .25 | — .45 | 3.60 |
| 1798 | " <i>Herrei</i> | — .60 | 1.— | —.— |
| 1804 | <i>Herreanthus Meyeri</i> , white flowers | — .50 | — .90 | —.— |
| 1805 | <i>Hymenocyclus latipetalus</i> . | — .60 | 1.— | —.— |
| 1806 | " <i>Herrei</i> , very nice | — .40 | — .75 | —.— |
| 1806b | " <i>luteolus</i> | — .50 | — .90 | —.— |
| 1807 | " <i>purpureo-croceus</i> | — .25 | — .45 | —.— |
| 1808 | <i>Juttadinteria albata</i> , withe flowers | — .40 | — .75 | 6.— |
| 1809 | " <i>proxima</i> , red flowers | — .50 | .90 | —.— |
| 1810 | " <i>Simpsonii</i> | — .25 | — .45 | —.— |
| 1811 | " sp. <i>Richtersveld</i> | — .40 | — .75 | —.— |
| 1812 | " <i>rheolens</i> | — .60 | 1.— | —.— |
| 1816 | <i>Lapidaria Margaretae</i> | — .50 | — .90 | 7.20 |
| 1820 | <i>Lithops bella</i> | — .60 | 1.— | —.— |
| 1825 | " <i>Eberlanzii</i> | — .80 | 1 50 | —.— |
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| 1828 | " <i>Framesii</i> , withe fl. | — .80 | 1.50 | —.— |
| 1830 | " Lesliei | —.— | — .40 | 3.20 |
| 1833 | " <i>marmorata</i> | — .60 | 1.— | —.— |
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| 1840 | " " var. Mundtii | —.— | — .50 | 4.— |
| 1860 | " <i>optica</i> , very nice | — .45 | — .80 | 7.20 |
| 1862 | " <i>olivacea</i> , new | — .50 | — .90 | —.— |
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| 1878 | " <i>blandum</i> | —.— | — .40 | —.— |
| 1880 | " <i>caulescens</i> | — .25 | — .45 | —.— |
| 1884 | " <i>filamentosum</i> | —.— | — .30 | —.— |
| 1886 | " <i>rubropurpureum</i> | —.— | — .50 | —.— |
| 1887 | " <i>stenum</i> , very nice | —.— | — .40 | 3.20 |
| 1889 | " <i>Watermeyeri</i> <i>L. Bol.</i> sp. nova | —.— | — .50 | 4.— |
| 1890 | <i>Meyerophytum Meyeri</i> , large flowers | — .50 | — .90 | —.— |
| 1900 | <i>Odontophorus Marlothii</i> | — .80 | 1.50 | —.— |
| 1903 | " <i>nanus</i> , very rare | — .60 | 1.— | —.— |
| 1904a | " species nova Nr. 9266 Kapland, unnamed | — .60 | 1.— | —.— |
| 1906 | " <i>primulinus</i> | — .50 | — .90 | —.— |
| 1913 | <i>Ophthalmophyllum Herrei</i> , body orange to blood red, valuable pl. | — .80 | 1.50 | 12.— |
| 1916 | <i>Oscularia deltoides</i> | —.— | — .30 | —.— |
| 1920 | <i>Pleiospilos Bolusii</i> | — .40 | — .75 | 6.— |
| 1922 | " <i>dimidiatus</i> <i>L. Bol.</i> sp. nova | — .80 | 1.50 | —.— |
| 1928 | " <i>Nelii</i> , rare, large fl. | 1.— | —.— | —.— |
| 1930 | " <i>prismaticus</i> | — .40 | — .75 | —.— |
| 1932 | " <i>Roodiae</i> | — .60 | 1.— | —.— |



Faucaria lupina
seeds Nr. 1752



Lithops Fulleri
seeds Nr. 1826



Lithops terricolor
seeds Nr. 1866



Lithops olivacea seeds Nr. 1862



Pleiospilos simulans seeds Nr. 1936



The new indoor Hothouse

electrically heated with automatic regulation 8×16×10 inches high, with removable seed pan. It is possible to keep the temperature constantly at 80 or any other degree. Seeds germinate quickly and grow fast. Economical of operation.

Price complet \$ 11.—
post paid.

Mesembrianthemum

| Nr. | 25 s. \$ | 50 s. \$ | 500 s. \$ |
|--|-------------|-------------|--------------|
| 1936 Pleiospilos simulans, fine | — .25 | — .45 | 3.60 |
| 1937 " Willowmorensis L. | | | |
| <i>Bol. sp. nova</i> | — .60 | 1.— | — .— |
| 1938 Prenia Sladeniana, rare | — .60 | 1.— | — .— |
| 1938b Psilocaulon graniculata var. | — .50 | — .90 | — .— |
| 1940 Punctillaria magnipunctata | — .50 | — .90 | — .— |
| 1948 Rimaria Heathii | — .60 | 1.— | — .— |
| 1952 Ruschia cymosa | — .40 | — .75 | — .— |
| 1952a " dichova var. alba | — .60 | 1.— | — .— |
| 1952b " gibbosa L. <i>Bol. sp. n.</i> | — .40 | — .75 | — .— |
| 1953 " hamata | — .40 | — .75 | — .— |
| 1953a " hexamera var. longi- petala L. <i>Bol. sp. n.</i> | — .60 | 1.— | — .— |
| 1954c " solida | — .40 | — .75 | — .— |
| 1955 " tumidula | — .50 | — .90 | — .— |
| 1955b " uncinella var. | — .50 | — .90 | — .— |
| 1955d Schwantesia Herrei L. <i>Bol.</i> <i>sp. nova</i> | — .80 | 1.50 | — .— |
| 1957 Stomatium albo-roseum L. | | | |
| <i>Bol. sp. nova</i> | — .40 | — .75 | — .— |
| 1957b " Fulleri | — .50 | — .90 | — .— |
| 1958 " Meyeri L. <i>Bol. sp. n.</i> | — .40 | — .75 | — .— |
| 1972 Trichodiadema setuliferum | — .25 | — .45 | 3.60 |
| 1974 " stelligerum | — .40 | — .75 | — .— |
| 1998 many fine kinds (Conoph., Lithops + Pleiosp.) mixed | — .— | — .60 | — .— |
| 1999 many kinds mixed of all | — .— | — .30 | 2.40 |

Write for: „Cacti in the home“. Guide to the indoor cultivation of cacti. Revised edition, price \$ —.25 post paid.

Peru-Expedition 1930-1931

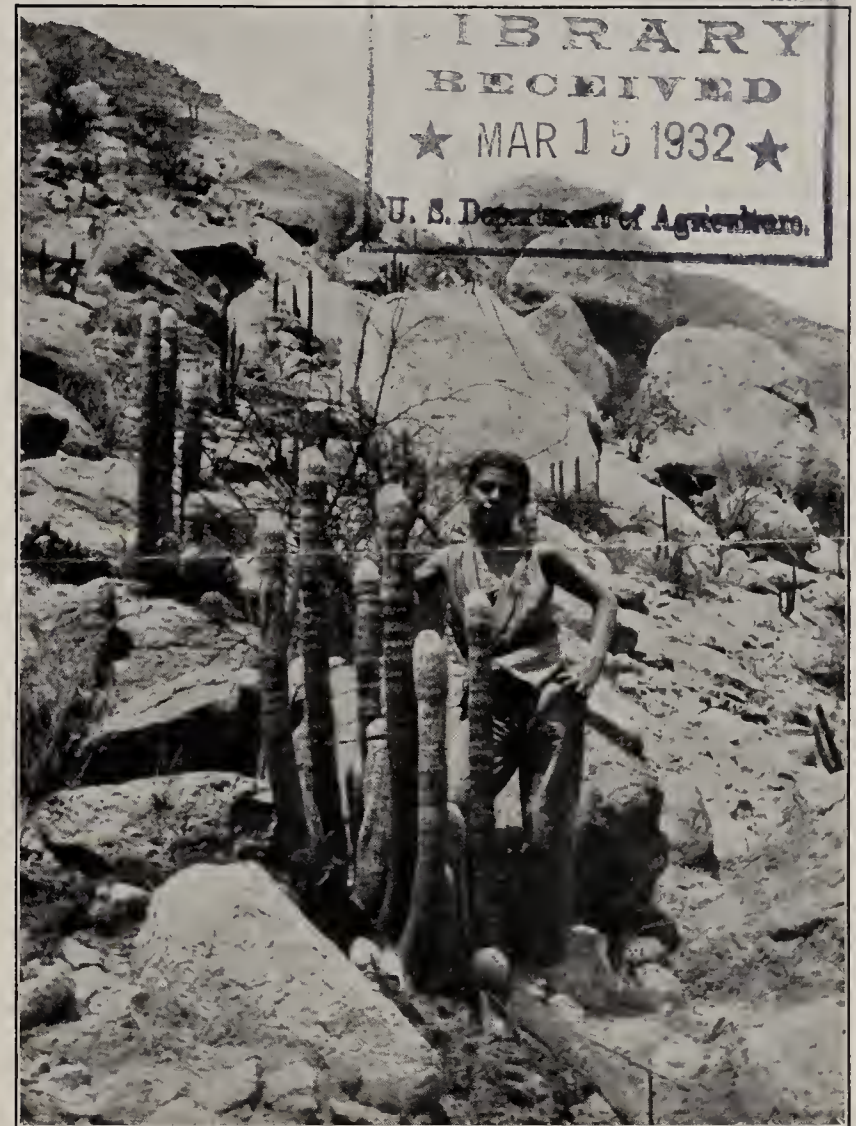


Photo left

Espostoa gigantea,
Bckbg. (with cristates),
this new and very
beautiful species of
Dautwitzii grows very
large, has a brilliant
yellow tip with contrast-
ing red radial spines.
A moist location best for
propagation.
(New, exclusive species.)

Photo right

Espostoa Dautwitzii,
Bckbg. (Choisica), much
shorter and thinner,
grows on very dry
rubble. Occasionally
forms gray central
spines. Seedlings
capable of growing on
own roots without graft-
ing, established
possibility.
(The familiar *Pilocereus*
Dautwitzii Haage jr.)



My trip through Peru, commissioned by the firm of Friedrich Adolph Haage jr., Erfurt, Germany, is ended. Its purpose was to search the entire country systematically for all known and any new varieties.

I went far into the interior of northern Peru, farther than the Americans penetrated, and there near the border of Ecuador I soon found the greatest sensation, which indicated the final solution of the *Espostoa* problem: namely, a giant of the *Dautwitzii* species which is incomparably more beautiful than any known cultivated variety. In addition to soft silky long hairs, this most beautiful of all *Cerei* fashions red and yellow speckled central spines, or is at times quite spineless, in which case the tip is resplendently yellow, and very often forms blood red radial spines. It grows in fairly moist ground, and consequently this wonderful *Espostoa* is surely better adapted to grow on its own roots without being grafted than the *Dautwitzii* from Rimactal which grows on very dry rubble.

As was to be expected, some new genera were found, the most important of which was *Haageocactus rigidissimus*, a wonderful *cereus*. It has dense, red brown spines, often banded with the colors of the rainbow, is shaped like *Borzicactus*, but has white, wheel-shaped flowers.

Beside these I found the rare and unusual *Cereus microspermus* which forms a large, smooth stemmed, tree-shaped plant, and which later is entirely spineless except for a shock of golden brown bristles at the top.

In the northern Interior I finally rediscovered the genuine *Borzicactus aurivillus*. On its flowering stalks it puts out fingerlong, orange colored bristles, soft as silk. This I did not find anywhere else in Peru as it grows in a very limited area.

Other splendid varieties of cacti found are: an entirely new *Neoraimondia* with dark red flowers, the supergiant of all forms of cacti; the rare *Oroya*; *Matucana*; *Opuntia floccosa*; also the new *Opuntia atroviridis* which closely resembles *Echinocereus Knippelianus*; *Meyenia Weberbaueri* which has closed flowers and is almost finer than *Piloc. chrysacanthus*; the very rare *Mila Cubei* which resembles an *echinocereus*, but bears extra large golden yellow flowers. Finally rare varieties from southern Peru, including *Browningia candelaris* whose seed was sought in vain since *Meyen's* time in 1834.

All Peruvian kinds, especially the old representatives of the subtribes *Corryocactus brevistylus* and *C. brachypetalus*, also the new rose red spined *Eulychnocactus* from Bolivia, all of these in contrast to most S. American cacti form entirely distinct, usually monotypic genera, which are fundamentally different from all known forms.

Binghamia chosiquensis, for instance, is indescribably beautiful, flowering violet red, not white, like a deep golden yellow *Straussii*. What a new craze for *Cerei* these smaller columnar Peruvian Cacti will create, even those antagonistic to this tribe will be delighted with them. They are so different, so bizarre, at the same time exceedingly gay, and flower when young. Their picturesque appearance makes them the jewel of every collection, the last link in the cycle of forms.

The systematic disclosure of the Peruvian cactacean flora is completed. Now inasmuch as Herr Haage has decided to offer the seeds at a reasonable price so that every one may procure these long wanted rarities, it will be possible for all fanciers to start a small collection of these most interesting of all S. American varieties, especially as they will grow with ordinary care. B.



Oroya (*Echus. peruvianus*) *Br. and R.*
 Splendid genus, rose red and abundantly
 flowering; from central Peru.
 (Picture shows a giant cristate.)



Binghamia chosiquensis *Bckbg.*
 Violet red bloom, much resembles *Strausii*, but
 has spines of marvellous golden yellow.



Opuntia atroviridis *Bckbg.*
 The clusters resemble *Echc. Knippelianus*.

| No. | Name | 50 seeds \$ | 500 seeds \$ | 5000 seeds \$ | No. | Name | 50 seeds \$ | 500 seeds \$ | 5000 seeds \$ |
|------|---|-------------------|--------------------|---------------------|-------|--|-------------------|--------------------|---------------------|
| — | Arequipa (Br. & R.) leucotricha Philippi . . . | — | — | — | 15m | Corryocactus (Br. & R.) brevistylus K. Sch. . | — .50 | 4.50 | 40.— |
| 662 | Binghamia (Br. & R.) acrantha Vpl. Extremely rare, fiercely spined cereus. Grows only in one definite locality. Splendid species | — .60 | — | — | 67 | Erdisia (Br. & R.) squarrosa Vpl. | — .80 | 7.20 | — |
| 17 f | Binghamia (Br. & R.) chosiquensis Bckbg. Has gorgeous red flowers. This wonderful plant can be likened to a golden yellow Strausii | 1.— | 9.— | — .80 | 672 | Espostoa (Br. & R.) gigantea Bckbg. sp. n. The Sensation. The genus Espostoa, formerly monotypic, consists of fundamentally different species. E. gigantea is the handsomest | | | |
| 54 | Binghamia (Br. & R.) melanosthele Vpl. . . | 1.— | 9.— | — | | v. rubripina Bckbg. | | | |
| 15 f | Borzicactus (Br. & R.) acanthurus Vpl. . . . | — .50 | 4.50 | 40.— | | v. longispina Bckbg. | | | |
| 15 e | Borzicactus (Br. & R.) acanthurus v. ferox Bckbg. | — .80 | 7.20 | — | | Espostoa (Br. & R.) Humboldtii Bckbg. . . . | 1.30 | 11.70 | — |
| 21 c | Borzicactus (Br. & R.) decumbens Vpl. . . . | 1.— | 9.— | — | | Espostoa (Br. & R.) Dautwitzii, Bckbg. (Haage jr.) Familiar one, we grow it by grafting; grows on dry rubble in contrast to the fairly moist location of E. gigantea. Seedlings forming a good root system available for first time | 1.10 | 9.90 | — |
| 16 d | Browningia (Br. & R.) candelaris Meyen. In D.K.G. Journal 1929, nos. 2/3, "Imposing representative of the subtribe Cereus". Old variety, forms slender candelabrum; flowers orange red | — .40 | 3.60 | 32.— | 668 c | | | | |
| 55 | Cereus microspermus Bckbg. | 1.— | 9.— | 80.— | | | | | |
| 15 k | Corryocactus (Br. & R.) brachypetalus Vpl. . | — .40 | 3.60 | 32.— | 15 p | Eulychnocactus (Bckbg.) bolivianus Bckbg. | — .50 | 4.50 | 40.— |



Neoraimondia gigantea Bckbg.
The most gigantic of all forms of Cacti.
Red flower.



Neoraimondia roseiflora Bckbg.
Also has red flowers, but does not grow large;
a species from Central Peru.



Lemaireocereus jungo Bckbg.
The genuine *L. laetus* which Humboldt found;
from the border of Ecuador.

| No. | Name | 50 seeds \$ | 500 seeds \$ | 5000 seeds \$ | No. | Name | 50 seeds \$ | 500 seeds \$ | 5000 seeds \$ |
|-----|---|-------------------|--------------------|---------------------|------------------------------------|--|-------------------|--------------------|---------------------|
| 16f | Lemaireocereus (<i>Br. & R.</i>) cartwrightianus (<i>Br. & R.</i>). The tallest giant of Lemaireocereus with the biggest seeds; not glaucous. Forms longest spines of all, easily grown, true green | — .60 | 5.40 | 38.60 | 609 | Opuntia Pentlandii , <i>S.-D.</i> , Almost spherical, rare kind | — .80 | 7.20 | — |
| 36 | Lemaireocereus (<i>Br. & R.</i>) jungo , <i>Bckbg.</i> . . . | — .60 | 5.40 | 38.60 | 617 | Opuntia silvestris , <i>Bckbg.</i> Grows first like Tephocactus, then like Platypuntia. (Bolivia, cir. 4000 m. high) | 1.20 | — | — |
| 51c | Lemaireocereus (<i>Br. & R.</i>) laetus , <i>H.B.K.</i> . . | — .30 | 2.70 | 24.30 | 165 | Oroya peruviana <i>Br. & R. K.Sch.</i> Typ. At last seeds of this much coveted genus are available in quantity. Flowers rose with yellow white | — .40 | 3.60 | 32.— |
| 13f | Melocactus (<i>Lk. & O.</i>) townsendianus , <i>Br. & R.</i> | — .50 | 4.50 | — | 165a | Oroya var. aureispina <i>Bckbg.</i> | — .50 | 4.50 | 40.— |
| 131 | Melocactus (<i>Lk. & O.</i>) unguispinus , <i>Bckbg.</i> , | — .80 | — | — | 165b | Oroya var. rubrispina <i>Bckbg.</i> | — .50 | 4.50 | 40.— |
| 84b | Meyenia Weberbaueri , <i>Bckbg.</i> | — .40 | 3.60 | — | Trichocereus <i>Berger.</i> | | | | |
| 13p | Neoraimondia (<i>Br. & R.</i>) gigantea und var. roseiflora , <i>Bckbg.</i> The two new Neoraimondia with red blossoms! N. gigantea is the colossal one. The hugest of any form of Cerei. N. roseiflora does not grow tall, but has red flowers also. Seeds mixed, not available separately | 1.10 | — | — | 16b | Trichocereus bridgesii <i>S.-D.</i> | — .30 | 2.70 | 24.30 |
| 560 | Opuntia atroviridis , <i>Bckbg.</i> Much like Echinocereus Knippelianus, dark green. Extremely desirable | — .60 | 5.40 | — | 20b | Trichocereus cuzcoensis <i>Br. & R.</i> The rarest from Interior of Peru. Stable, handsome form | — .40 | 3.60 | 32.— |
| | | | | | 60c | Trichocereus peruvianus <i>Br. & R.</i> (Not to be confused with Piptantocereus peruvianus, the usual foundation stock). Has gorgeous big flowers | 1.10 | — | — |

Other seeds:

| No. | Name | 50 seeds \$ | 500 seeds \$ | 5000 seeds \$ |
|------|---|-------------------|--------------------|---------------------|
| 44b | Cereus Hassleri | — .80 | 7.20 | — |
| 51f | Cereus litoralis (Chile) | — .40 | 3.60 | 32.— |
| 51b | Cereus Lauterbachii | — .40 | 3.60 | 32.— |
| 61f | Cereus phatnospermus | — .50 | 4.50 | 40.— |
| 160 | Echinocactus nigricans (Chile) | — .40 | 3.60 | 32.— |
| 179 | Echinocactus scopa ruberrimus | — .60 | 5.40 | 38.60 |
| 317 | Lobivia, sp. | — .80 | 7.20 | 64.80 |
| 626g | Opuntia Weberi | — .80 | 7.20 | 64.80 |
| 626k | Opuntia Weberi var. | — .80 | 7.20 | 64.80 |
| 679 | Pilocereus Trollii | 500 seeds | 5.50 | |
| 884 | Caralluma pseudo-Newbournii | 50 seeds | 1.— | |
| 1860 | Lithops optica | 50 seeds | 2.40 | |



Browningia candelaris, *Br. & R.*, seeds of this are obtainable for the first time.



A photograph showing the difficulties of gathering seed. (Espos, dautwitzii growing in background.) Isolated plants like these and all *Cereus microspermuä* were to be reached only with the aid of a rope.

HERMAN TOBUSCH

632 So. Wisconsin Ave Villa Park, Illinois



Echinocactus ingens

